



Sheet 1 of 12  
Inventor: Farmer  
U.S.S.N.: TBA - filed herewith  
Title: Inhibition of Pathogens by Probiotic Bacteria  
Docket No.: 19374-509CON

FIG. 1

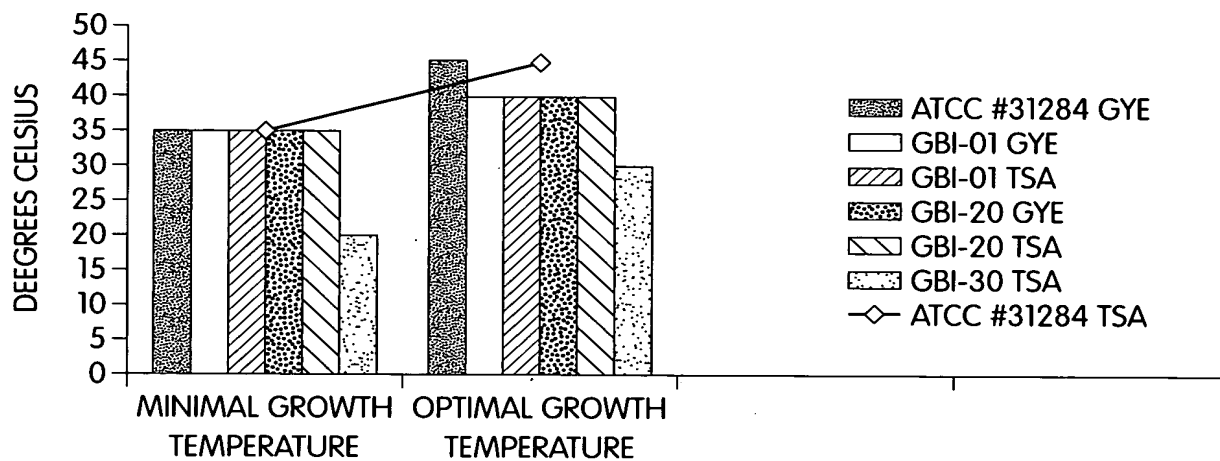


Fig. 1

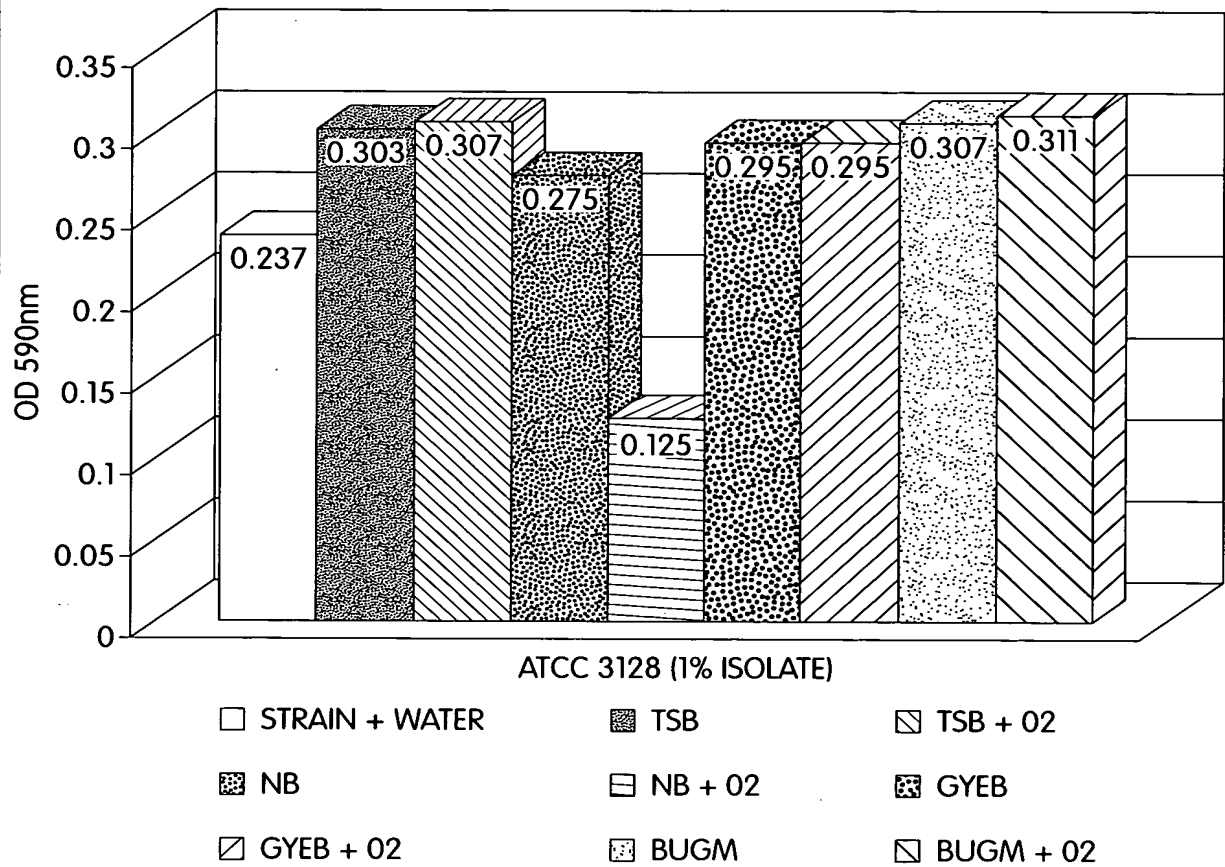


Fig. 2

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FIG.3

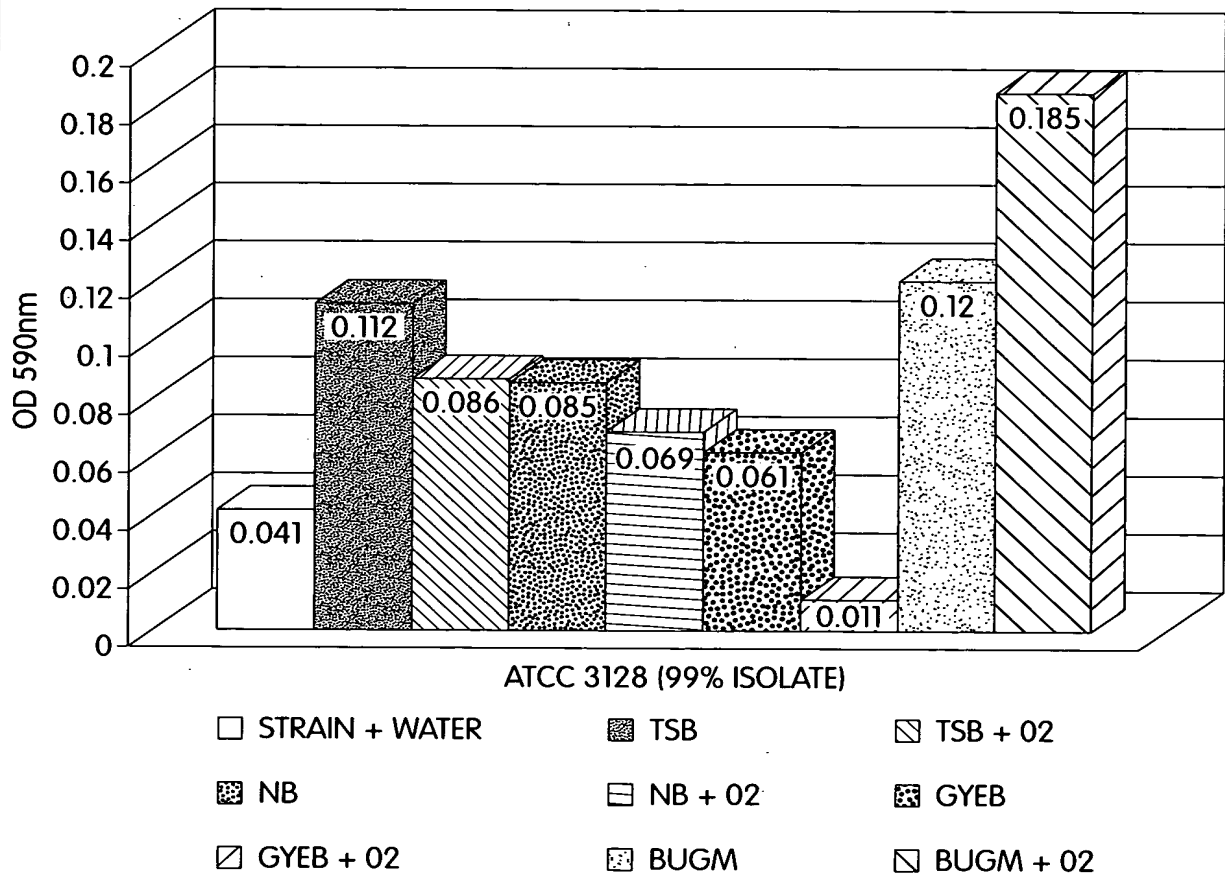


Fig. 3

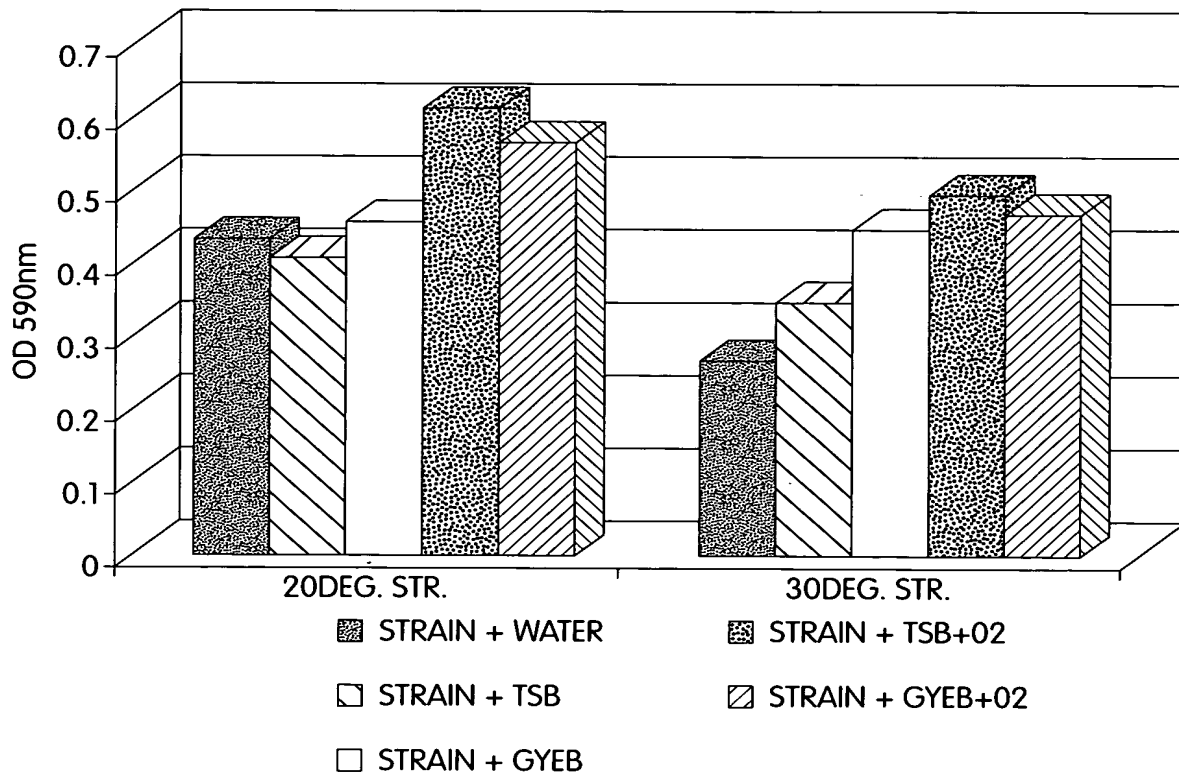


Fig. 4

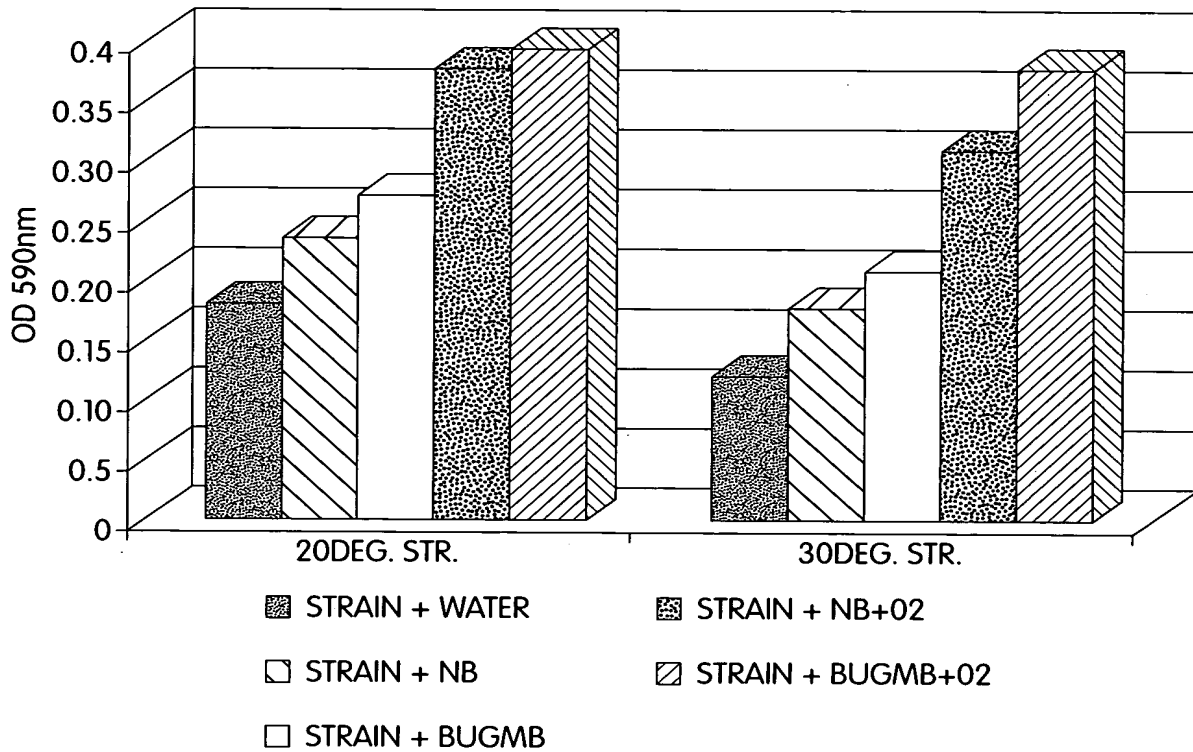


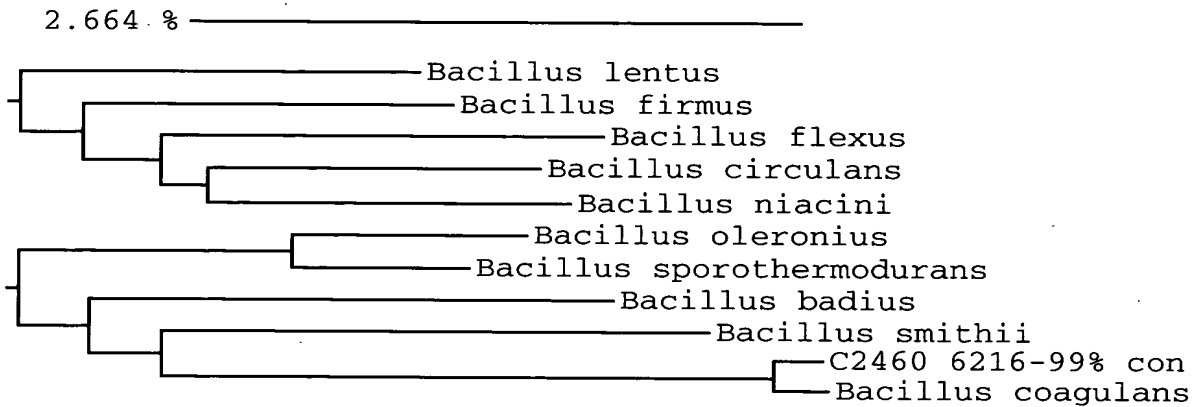
Fig. 5

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FIG. 6

Alignment: 1549 C2460 6216-99% con  
 0.65 % 1549 Bacillus coagulans  
 4.84 % 1548 Bacillus oleronius  
 5.36 % 1550 Bacillus smithii  
 5.62 % 1548 Bacillus sporothermodurans  
 5.65 % 1551 Bacillus badius  
 5.79 % 1547 Bacillus firmus  
 5.85 % 1547 Bacillus lentus  
 5.90 % 1543 Bacillus circulans  
 5.95 % 1545 Bacillus niacini  
 6.30 % 1548 Bacillus flexus

### Neighbor Joining Tree



### Concise Alignment

1  
 111222222241  
 347011256784  
 902967240204  
 C2460 6216-99% con TCGAYTTWTTYC (SEQ ID NO:1; where r = A or G, y = C or T, and w = A or T)  
 Bacillus coagulans CTRGCGCACCCG (SEQ ID NO:2; where r = A or G, y = C or T, and w = A or T)

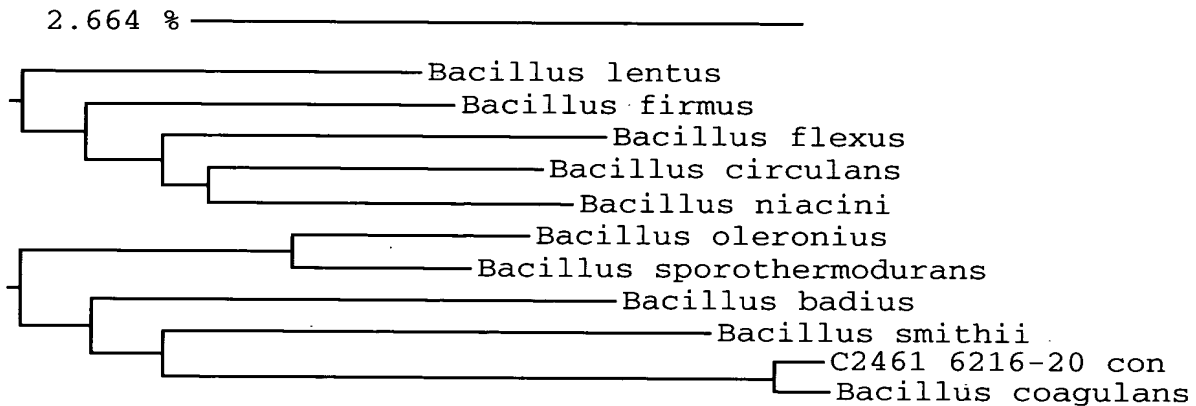
Fig. 6

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 Docket No.: 19374-S09CON

FIG. 7

Alignment: 1549 C2461 6216-20 con  
 0.65 % 1549 Bacillus coagulans  
 4.84 % 1548 Bacillus oleronius  
 5.36 % 1550 Bacillus smithii  
 5.62 % 1548 Bacillus sporothermodurans  
 5.65 % 1551 Bacillus badius  
 5.79 % 1547 Bacillus firmus  
 5.85 % 1547 Bacillus lentus  
 5.90 % 1543 Bacillus circulans  
 5.95 % 1545 Bacillus niacini  
 6.30 % 1548 Bacillus flexus

### Neighbor Joining Tree



### Concise Alignment

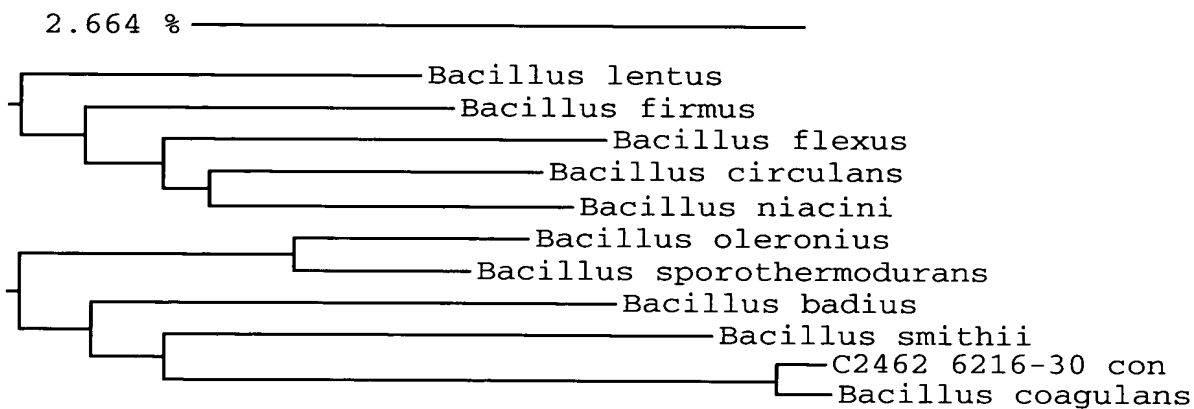
1  
 111222222241  
 347011256784  
 902967240204  
 C2461 6216-20 con TCGAYTTWTTYC (SEQ ID NO:1; where r = A or G, y = C or T, and w = A or T)  
 Bacillus coagulans CTRGCGCACCCG (SEQ ID NO:2; where r = A or G, y = C or T, and w = A or T)

Fig. 7

Alignment: 1549 C2462 6216-30 con

0.65 %	1549	Bacillus coagulans
4.84 %	1548	Bacillus oleronius
5.36 %	1550	Bacillus smithii
5.62 %	1548	Bacillus sporothermodurans
5.65 %	1551	Bacillus badius
5.79 %	1547	Bacillus firmus
5.85 %	1547	Bacillus lentus
5.90 %	1543	Bacillus circulans
5.95 %	1545	Bacillus niacini
6.30 %	1548	Bacillus flexus

### Neighbor Joining Tree



### Concise Alignment

	1
C2462 6216-30 con	TCGAYTTWTTYC (SEQ ID NO:1; where r = A or G, y = C or T, and w = A or T)
Bacillus coagulans	CTRGCGACCCG (SEQ ID NO:2; where r = A or G, y = C or T, and w = A or T)

Fig. 8



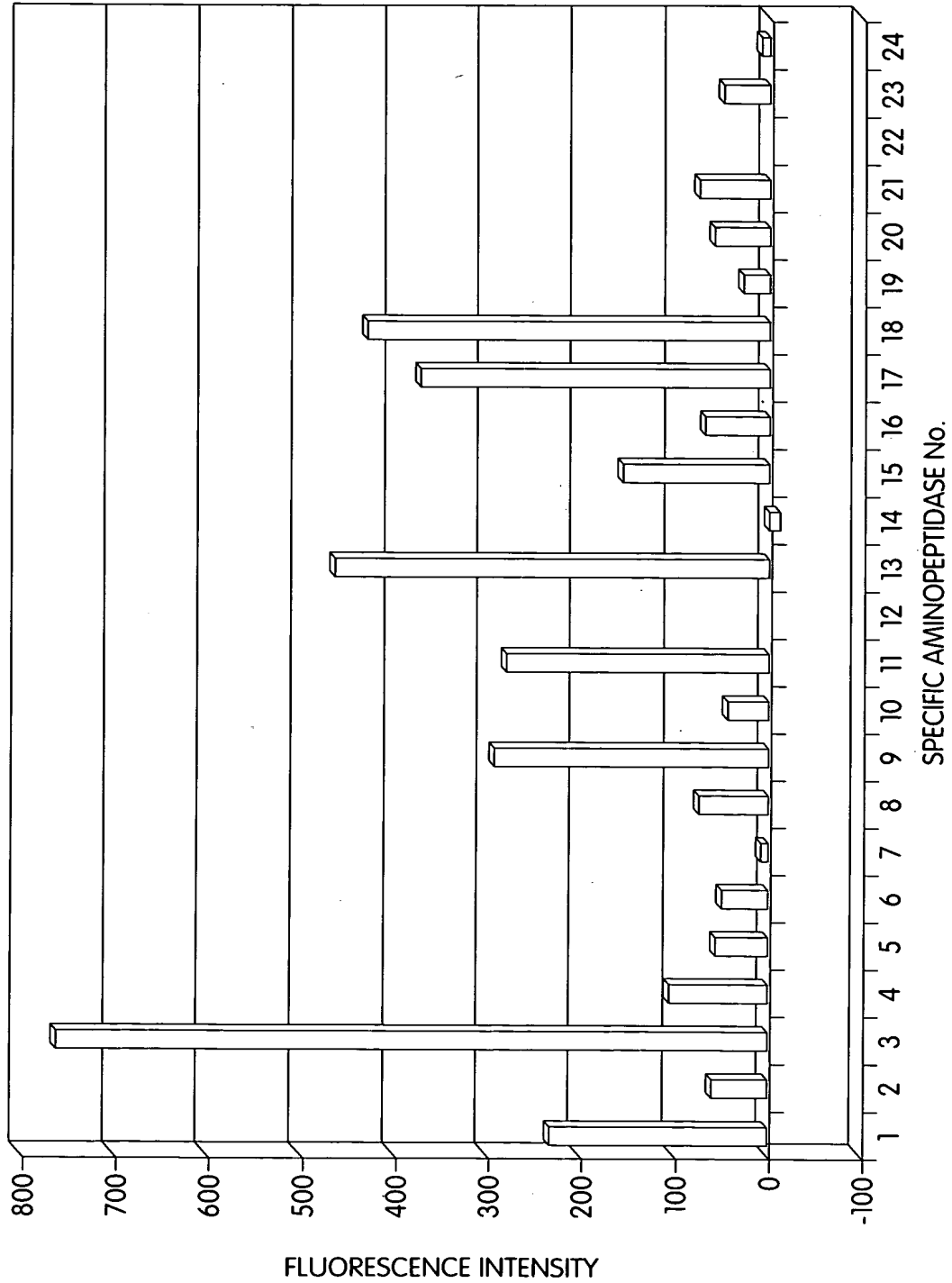


Fig. 9

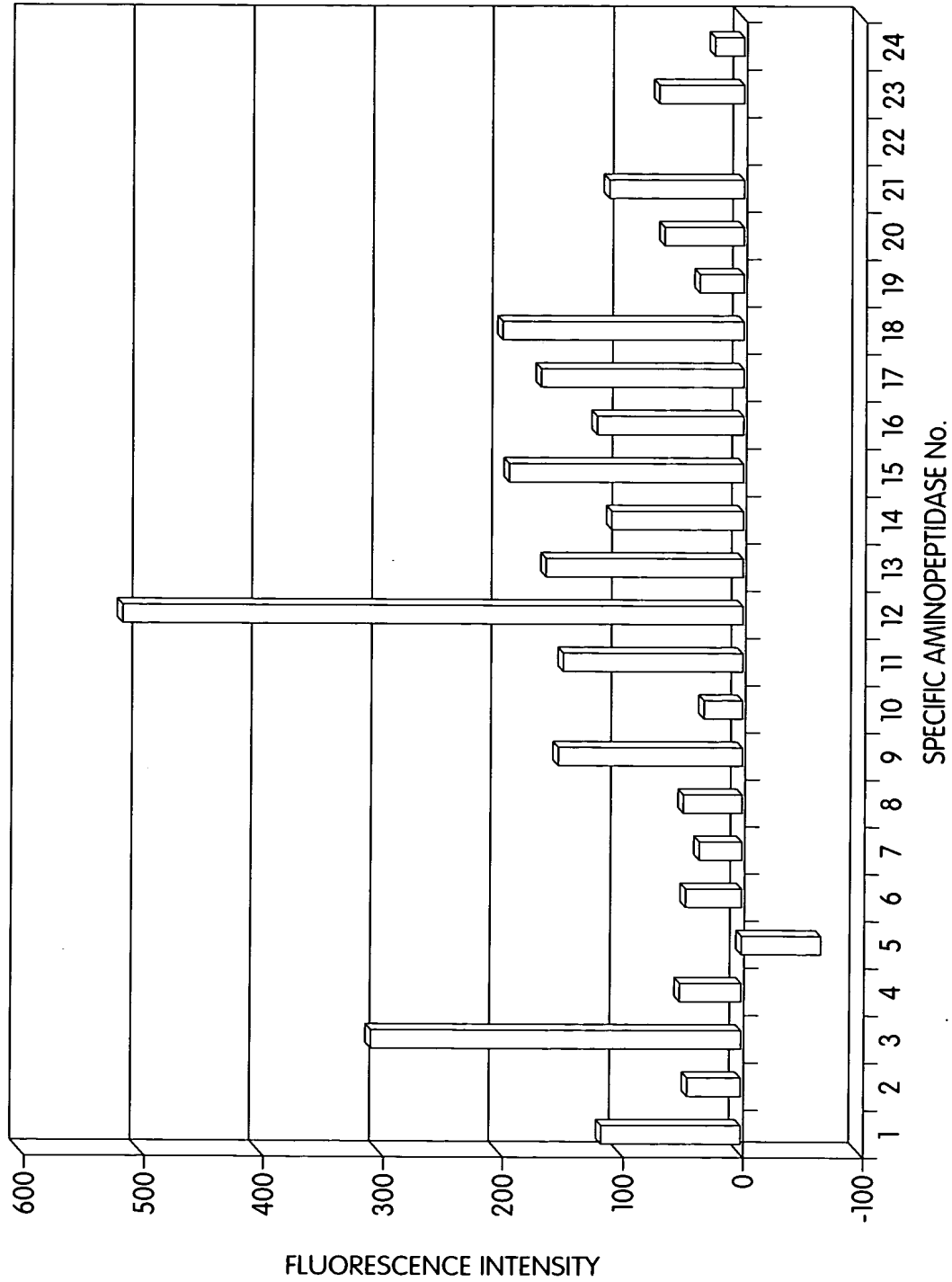


Fig. 10

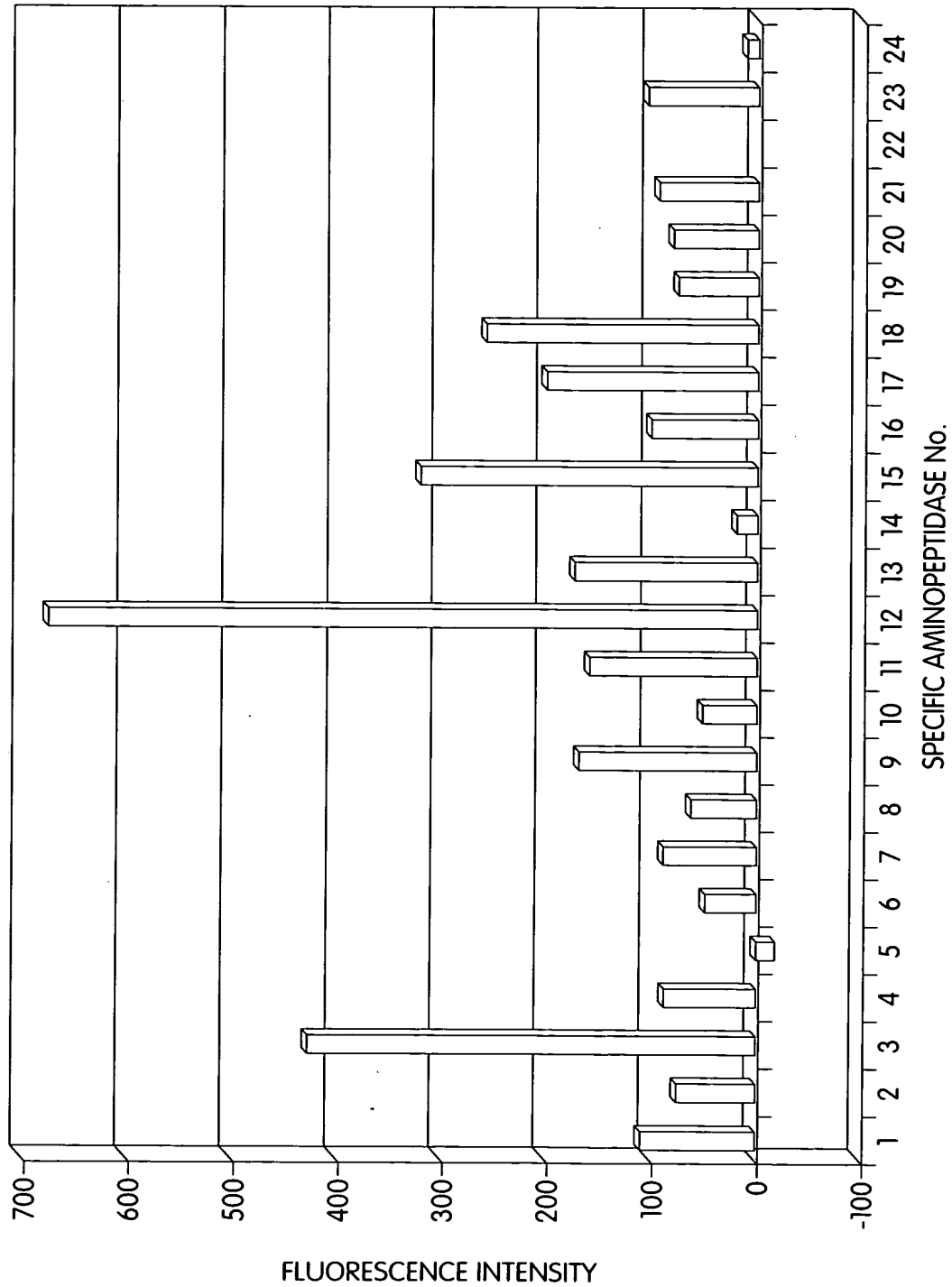


Fig. 11

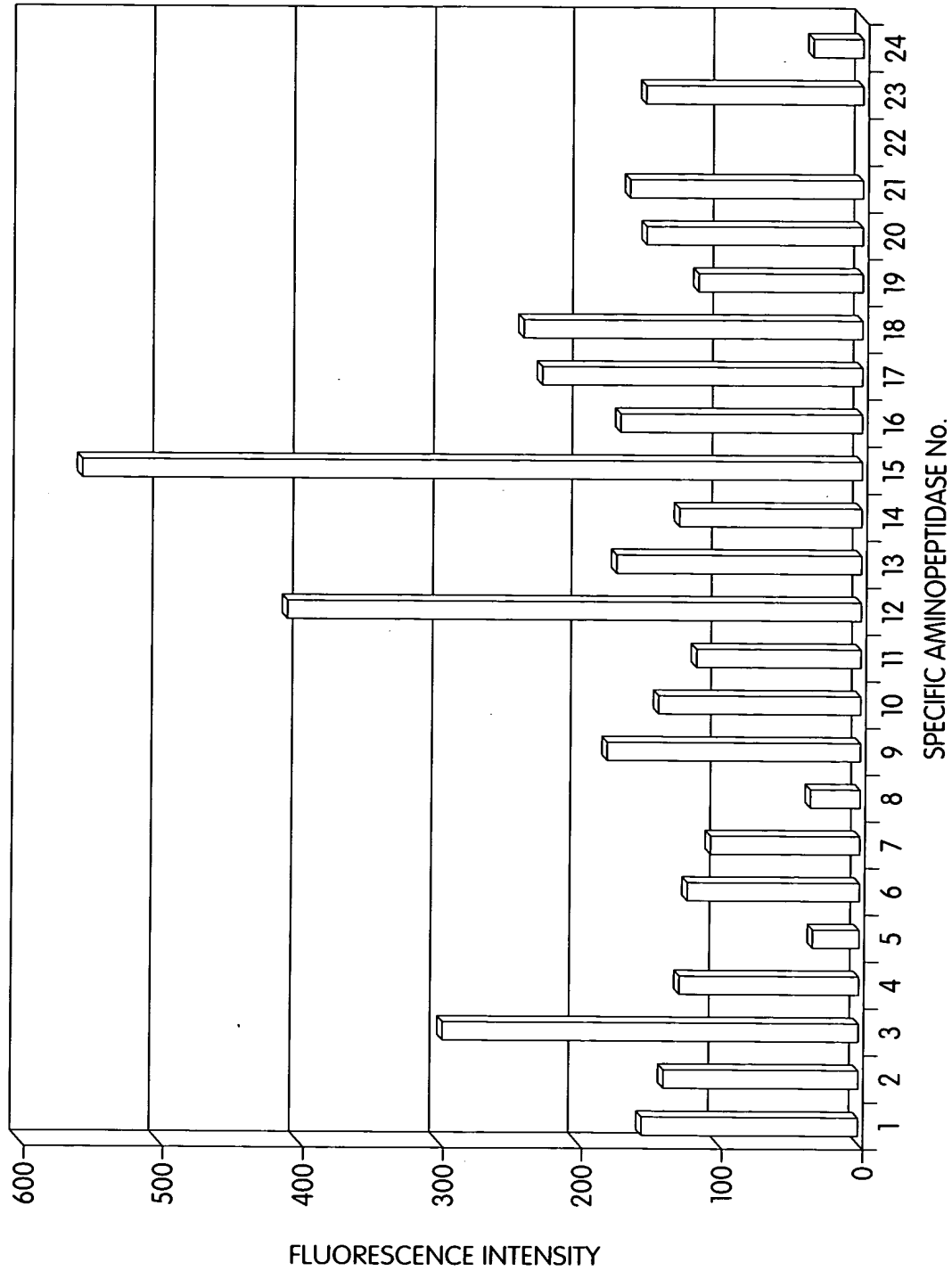


Fig. 12